



MAG Regional ITS Architecture Takes Shape

Asystem architecture is one of the most critical components of a regional ITS strategic plan. Essentially, a system architecture describes how the various system components fit together and interact with each other to make the system work. The architecture framework outlines system functions, physical subsystems of those functions, interfaces and information flows, and communications requirements for information flows.

The development of the MAG regional ITS architecture has drawn extensively on efforts completed in the first several tasks of the MAG ITS Strategic Plan Update. Using the transportation needs identified by the stakeholders, as well as their associated User Services and Market Packages, the project team used the guidelines established by the National ITS Architecture (NA) to develop a long-term architecture vision for the region. In addition to complying with the NA, the development of the MAG regional ITS architecture was coordinated with the existing architectures for AZTechTM, ADOT's Freeway Management System, and Arizona's statewide architecture. Coordination with these existing architectures ensures consistency among the various systems in the region.

The MAG regional ITS architecture has been designed to:

- u Identify the different transportation management systems in the MAG region and how they will interact
- u Allow multiple agencies, service providers and users to communicate
- u Show organizational responsibilities and service providers involved in the system
- u Identify communications and data flows
- u Support the development of "open" systems using national standards and protocols
- u Incorporate existing and planned systems
- u Accommodate new technologies in the future
- u Provide a framework for multiple design choices
- u Provide a structure for future planning and growth

The Transportation Equity Act for the 21st Century (TEA 21) specifies that to receive federal funding from the Highway Trust Fund (the source of TEA 21 funds), ITS projects must "conform to the National Architecture, applicable standards or provisional standards, and protocols...". The MAG regional ITS architecture complies with this federal requirement. The architecture developed as part of this ITS Strategic Plan forms the basis for the telecommunications requirements, project recommendations, and ultimately, deployment time frames.

What's Next?

Telecommunications Infrastructure for ITS

The development of the ITS Telecommunications Plan is currently underway. This plan will focus on identifying sustainable telecommunications infrastructure needed to support planned ITS in the MAG region. Implementation, operations, and maintenance costs, as well as current and future needs will be considered in the development of the plan. Recommendations resulting from this plan will be incorporated in the Regional Wide Area Network Implementation Plan, to be launched by MAG shortly.

MISSION To plan, implement and evaluate appropriate ITS technologies consistent with the national ITS program that address regional goals and objectives of the transportation users.

VISION Enhance the quality of life in the MAG region

by applying technology and information sharing to improve the multi-modal

transportation system.

In Touch

Your input and feedback are very important to the update of the MAG ITS Strategic Plan. Members of the study team are available to respond to any questions or comments about the study. We encourage you to contact us via phone, e-mail, or visit our website.

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To add or change an address, please contact Lisa Burgess at Kimley-Horn and Associates at (602) 944-5500 or e-mail at lburgess@kimley-horn.com

CALENDAR

All RISG meetings will be held at: MAG offices Saguaro Room, Third Floor 302 N. 1st Avenue

Phoenix. Arizona

Regional ITS Stakeholder **Group Meetings**

May 17, 2000 10:00-11:00am June 21, 2000 10:00-11:00am July 19, 2000 10:00-11:00am

The MAG project manager will notify RISG members of any changes in meeting time or location via e-mail or fax prior to scheduled meeting.

Project Team

Kimley-Horn and Associates, Inc. **TranSmart** Cambridge Systematics RH & Associates

Jim Book, City of Glendale** Tom Buick, Maricopa County Bob Ciotti, Phoenix Transit Terry Connor, DPS David Cowley, AAA Arizona Jim Decker, City of Tempe Don Dey, SAIC Mike Frisbie, City of Phoenix Alan Hansen, FHWA Chuck Hydeman, City of Goodyear Sarath Joshua, MAG* Mary Kihl, ASU Brian Latte, City of Chandler Jim Matteson, Phoenix Aviation Scott Miller, RPTA Scott Nodes, City of Peoria Ellis Perl, City of Surprise Steve Ramsey, City of Scottsdale Paul Randall, ASU Alan Sanderson, City of Mesa Dale Thompson, MCDOT Bruce Ward, Town of Gilbert Tim Wolfe, ADOT

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ITS Strategic Plan



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